

In The Claims:

Please amend claims 1, 2, 4, 5, 8-10, 12-14, 18-24, 26-30, 32, 33, 37, 38 and 40-42,
as provided below in the associated claim listing on separate sheets:

1. (Currently Amended) A battery charger configured to provide a temperature-regulated charging of a battery, comprising:

a processing arrangement operable to:

- (a) obtain a temperature data associated with the battery; and
- (b) apply a particular amount of a charge to the battery, ~~the charge being determined~~ based on the temperature data of the battery, wherein the processing arrangement is configured to maintain the battery ~~is maintained~~ at a predetermined threshold temperature during a time period in which the charge is applied to the battery.

2. (Currently Amended) The battery charger according to claim 1, wherein the ~~further comprising a~~ processing arrangement is further operable to:

- (c) obtain a voltage data associated with the battery; and
- (d) apply a charge to the battery, the charge being determined based on the voltage data of the battery.

3. (Original) The battery charger according to claim 1, wherein the charge is applied to the battery until charging of the battery is substantially completed.

4. (Currently Amended) The battery charger according to claim 1, wherein the ~~further comprising~~ processing arrangement is further operable to reading ~~the step of using~~ a voltage of the battery to determine if charging of the battery is substantially complete.

5. (Currently Amended) The battery charger according to claim 1, wherein the processing arrangement is further operable to ~~further comprising the steps of:~~

- (c) ~~measuring~~ a first voltage across a terminal of the battery;
- (d) ~~measuring~~ a second voltage across the terminals of the battery after step (c);
- (e) ~~determining~~ a difference between the first voltage and the second voltage;
and
- (f) ~~repeating~~ procedures steps (c)-(e) until charging of the battery is substantially complete.

6. (Original) The battery charger according to claim 1, further comprising at least one temperature sensor mounted on or in the battery, wherein the temperature sensor measures the temperature of the battery.

7. (Original) The battery charger according to claim 1, further comprising at least one temperature sensor, wherein the temperature sensor measures an ambient temperature.

8. (Currently Amended) The battery charger according to claim 1, wherein the charge applied to the battery allows a maximum charge intensity during charging of the battery as a function of the temperature data without damaging the battery.

9. (Currently Amended) The battery charger according to claim 1, wherein the ~~temperature-regulated charging is controlled by a~~ processing arrangement regulates the particular amount of the charge supplied to the battery as a function of the temperature data.

10. (Currently Amended) The battery charger according to claim 9, wherein the processing arrangement ~~includes a microprocessor~~ regulates the particular amount of the charge to be at least one of gradually increased or gradually reduced.
11. (Original) The battery charger according to claim 1, wherein the charge applied to the battery is based on one of voltage measurements and temperature measurements of the battery.
12. (Currently Amended) The battery charger according to claim 1, wherein the amount of the charge provided to ~~of the battery is~~ capable of being increased further based on a change in the temperature data of the battery.
13. (Currently Amended) The battery charger according to claim 1, wherein the battery comprises at least one of a nickel metal hydride battery, a nickel cadmium battery, a lead acid battery ~~and~~ a lithium ion battery.
14. (Currently Amended) The battery charger according to claim 1, wherein the ~~further comprising~~ processing arrangement is further operable to cool ~~the step of cooling~~ the battery using a cooling arrangement.
15. (Currently Amended) A process for providing a temperature-regulated charging of a battery, comprising ~~the steps of~~:
- (a) obtaining a temperature data associated with the battery; and

(b) applying a particular amount of a charge to the battery, ~~the charge being determined~~ based on the temperature data of the battery, wherein the processing arrangement is configured to maintain the battery is-maintained at a predetermined threshold temperature during a time period in which the charge is applied to the battery.

16. (Currently Amended) The process according to claim 15, further comprising ~~the steps of:~~

- (c) obtaining a voltage data associated with the battery; and
- (d) applying a charge to the battery, the charge being determined based on the voltage data of the battery.

17. (Original) The process according to claim 15, wherein the charge is applied to the battery until charging of the battery is substantially completed.

18. (Currently Amended) The process according to claim 15, further comprising ~~the step of~~ using a voltage of the battery to determine if charging of the battery is substantially complete.

19. (Currently Amended) The process according to claim 15, further comprising ~~the step of:~~

- (c) measuring a first voltage across a terminal of the battery;
- (d) measuring a second voltage across the terminals of the battery after step (c);
- (e) determining a difference between the first voltage and the second voltage; and
- (f) repeating steps (c)-(e) until charging of the battery is substantially complete.

20. (Currently Amended) The process according to claim 15, wherein ~~further comprising~~ at least one temperature sensor is mounted on or in the battery, wherein the temperature sensor measures the temperature of the battery.

21. (Currently Amended) The process according to claim 15, wherein ~~further comprising~~ at least one temperature sensor, wherein the temperature sensor measures an ambient temperature.

22. (Currently Amended) The process according to claim 15, wherein the charge applied to the battery allows a maximum charge intensity during charging of the battery as a function of the temperature data without damaging the battery.

23. (Currently Amended) The process according to claim 15, wherein the temperature-regulated charging is controlled by a processing arrangement, and wherein the processing arrangement regulates the particular amount of the charge supplied to the battery as a function of the temperature data.

24. (Currently Amended) The process according to claim 23, wherein the processing arrangement ~~includes a microprocessor~~ regulates the particular amount of the charge to be at least one of gradually increased or gradually reduced.

25. (Original) The process according to claim 15, wherein the charge applied to the battery is based on one of voltage measurements and temperature measurements of the battery.

26. (Currently Amended) The process according to claim 15, wherein the amount of the charge provided to ~~of the battery~~ is capable of being increased ~~further~~ based on a change in the temperature data of the battery.

27. (Currently Amended) The ~~process~~ battery-charger according to claim 15, wherein the battery comprises at least one of a nickel metal hydride battery, a nickel cadmium battery, a lead acid battery ~~or~~ and a lithium ion battery.

28. (Currently Amended) The process according to claim 15, further comprising ~~the step of~~ cooling the battery using a cooling arrangement.

29. (Currently Amended) A storage medium for providing temperature-regulated charging of a battery, comprising:

a software arrangement capable of configuring a processing ~~arrangement~~ arrangement accessing the storage medium ~~operable~~ to:

- (a) obtain a temperature data associated with the battery; and
- (b) apply a particular amount of a charge to the battery, ~~the charge being determined~~ based on the temperature data of the battery, wherein the processing arrangement is configured to maintain the battery ~~is maintained~~ at a predetermined threshold temperature during a time period in which the charge is applied to the battery.

30. (Currently Amended) The storage medium according to claim 29, ~~further comprising a wherein~~
the software arrangement operable is capable of further configuring the processing arrangement to:

- (c) obtain a voltage data associated with the battery; and
- (d) apply a charge to the battery, the charge being determined based on the voltage data of the battery.

31. (Original) The storage medium according to claim 29, wherein the charge is applied to the battery until charging of the battery is substantially completed.

32. (Currently Amended) The storage medium according to claim 29, ~~further comprising the step of~~
using wherein the software arrangement is capable of further configuring the processing arrangement
to use a voltage of the battery to determine if charging of the battery is substantially complete.

33. (Currently Amended) The storage medium according to claim 29, ~~further comprising the steps of~~
wherein the software arrangement is capable of further configuring the processing arrangement to:

- (c) ~~measuring~~ a first voltage across a terminal of the battery;
- (d) ~~measuring~~ a second voltage across the terminals of the battery after step (c);
- (e) ~~determining~~ a difference between the first voltage and the second voltage;
- and
- (f) ~~repeating~~ procedures steps (c)-(e) until charging of the battery is substantially complete.

34. (Original) The storage medium according to claim 29, further comprising at least one temperature sensor mounted on or in the battery, wherein the temperature sensor measures the temperature of the battery.

35. (Original) The storage medium according to claim 29, further comprising at least one temperature sensor, wherein the temperature sensor measures an ambient temperature.

36. (Original) The storage medium according to claim 29, wherein the charge applied to the battery allows a maximum charge intensity during charging of the battery.

37. (Currently Amended) The storage medium according to claim 29, wherein the temperature-regulated charging is controlled by a the processing arrangement, and wherein the processing arrangement regulates the particular amount of the charge supplied to the battery as a function of the temperature data.

38. (Currently Amended) The storage medium according to claim 37, wherein the processing arrangement ~~includes a microprocessor~~ regulates the particular amount of the charge to be at least one of gradually increased or gradually reduced.

39. (Original) The storage medium according to claim 29, wherein the charge applied to the battery is based on one of voltage measurements and temperature measurements of the battery.

40. (Currently Amended) The storage medium according to claim 29, wherein the amount of the charge provided to the of the battery is capable of being increased ~~further~~ based on a change in the temperature data of the battery

41. (Currently Amended) The storage medium ~~battery charger~~ according to claim ~~29~~1, wherein the battery comprises at least one of a nickel metal hydride battery, a nickel cadmium battery, a lead acid battery ~~or~~and a lithium ion battery.

42. (Currently Amended) The storage medium according to claim 29, ~~further comprising the step of~~ cooling wherein the software arrangement is capable of further configuring the processing arrangement to cool the battery using a cooling arrangement.